

Amendments to the Specification:

Please **delete** the paragraph on page 1 after the title, and **replace it** with the following paragraph entitled "Cross-Reference to Related Applications":

CROSS-REFERENCE TO RELATED APPLICATIONS

This application **is a divisional of U.S. Patent Application No. 09/057,996, filed April 9, 1998, which** claims the benefit of priority to ~~provisional application serial no. under~~ **35 U.S.C. § 119(e) of U.S. Patent Application Serial No. 60/041,815, filed on April 11, 1997. U.S. Patent Application No. 09/057,996 is herein incorporated by reference in its entirety.**

On page 1, please **add** the following paragraph, after the paragraph entitled "Cross-Reference to Related Applications":

INCORPORATION OF SEQUENCE LISTING

A paper copy of the Sequence Listing and a computer readable form of the sequence listing on diskette, containing the file named 16518131seq(ASFILED).txt, which is 54,544 bytes in size (measured in MS-DOS), and which was created on August 7, 2003, is herein incorporated by reference in its entirety.

Please **delete** the paragraph on page 3, line 14 through page 5, line 24, and **replace it** with the following paragraph entitled “Description of the Figures”.

DESCRIPTION OF THE FIGURES

- Figure 1. DNA (**SEQ ID NO: 1**) and translated amino acid sequence (**SEQ ID NO: 2**) of *Cuphea hookeriana* KAS factor B clone chKAS B-2 are provided.
- Figure 2. DNA (**SEQ ID NO: 3**) and translated amino acid sequence (**SEQ ID NO: 4**) of *Cuphea hookeriana* KAS factor B clone chKAS B-31-7 are provided.
- Figure 3. DNA (**SEQ ID NO: 5**) and translated amino acid sequence (**SEQ ID NO: 6**) of *Cuphea hookeriana* KAS factor A clone chKAS A-2-7 are provided.
- Figure 4. DNA (**SEQ ID NO: 7**) and translated amino acid sequence (**SEQ ID NO: 8**) of *Cuphea hookeriana* KAS factor A clone chKAS A-1-6 are provided.
- Figure 5. DNA (**SEQ ID NO: 9**) and translated amino acid sequence (**SEQ ID NO: 10**) of *Cuphea pullcherrima* KAS factor B clone cpuKAS B/7-8 are provided.
- Figure 6. DNA (**SEQ ID NO: 11**) and translated amino acid sequence (**SEQ ID NO: 12**) of *Cuphea pullcherrima* KAS factor B clone cpuKAS B/8-7A are provided.
- Figure 7. DNA (**SEQ ID NO: 13**) and translated amino acid sequence (**SEQ ID NO: 14**) of *Cuphea pullcherrima* KAS factor A clone cpuKAS A/p7-6A are provided.
- Figure 8. Preliminary DNA sequence (**SEQ ID NO: 15**) of *Cuphea pullcherrima* KAS factor A clone cpuKAS A/p8-9A is provided.
- Figure 9. DNA (**SEQ ID NO: 16**) and translated amino acid sequence (**SEQ ID NO: 17**) of *Cuphea hookeriana* KASIII clone chKASIII-27 are provided.
- Figure 10. The activity profile for purified cpuKAS B/8-7A using various acyl-ACP substrates is provided.
- Figure 11. The activity profile for purified chKAS A-2-7 and chKAS A-1-6 using various acyl-ACP substrates is provided.

Figure 12. The activity profile for purified castor KAS factor A using various acyl-ACP substrates is provided.

Figure 13. The activity profile for purified castor KAS factor B using various acyl-ACP substrates is provided.

Figure 14. A graph showing the number of plants arranged according to C8:0 content for transgenic plants containing CpFatB1 versus transgenic plants containing CpFatB1 + chKAS A-2-7 is provided.

Figure 15. Graphs showing the %C10/%C8 ratios in transgenic plants containing ChFatB2 (4804-22-357) and in plants resulting from crosses between 4804-22-357 and 5401-9 (chKAS A-2-7 plants) are provided.

Figure 16. Graphs showing the %C10 + %C8 contents in transgenic plants containing ChFatB2 (4804-22-357) and in plants resulting from crosses between 4804-22-357 and 5401-9 (chKAS A-2-7 plants) are provided.

Figure 17. Graphs showing the %C10/%C8 ratios in transgenic plants containing ChFatB2 (4804-22-357) and in plants resulting from crosses between 4804-22-357 and 5413-17 (chKAS A-2-7 + CpFatB1 plants) are provided.

Figure 18. Graphs showing the %C10 + %C8 contents in transgenic plants containing ChFatB2 (4804-22-357) and in plants resulting from crosses between 4804-22-357 and 5413-17 (chKAS A-2-7 + CpFatB1 plants) are provided.

Figure 19. Graphs showing the %C12:0 in transgenic plants containing Uc FatB1 (LA86DH186) and in plants resulting from crosses with wild type (X WT) and with lines expressing Ch KAS A-2-7.

Figure 20. Graph showing the relative proportions of C12:0 and C14:0 fatty acids in the seeds of transgenic plants containing Uc FatB1 (LA86DH186) and in plants resulting from crosses with wild type (X WT) and with lines expressing Ch KAS A-2-7.

Figure 21. Graphs showing the %C18:0 in transgenic plants containing Garm FatB1 (5266) and in seeds of plants resulting from crosses with wild type (X WT) and with lines expressing

Ch KAS A-2-7.

Figure 22. The activity profile of Ch KAS A in protein extracts from transgenic plants containing Ch KAS A-2-7. Extracts were preptreated with the indicated concentrations of cerulenin.